Effectiveness of SARS-CoV-2 mRNA Vaccines for Preventing Covid-19 Hospitalizations in the United States

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STROBE Statement—Checklist of items that should be included in reports of *case-control studies*

	Item No	Recommendation	Page No
Title and abstract	1	(a) Indicate the study's design with a commonly used term in the title or the	5
		abstract	
		(b) Provide in the abstract an informative and balanced summary of what was	5
		done and what was found	
Introduction			
Background/rationale	2	Explain the scientific background and rationale for the investigation being	6
		reported	
Objectives	3	State specific objectives, including any prespecified hypotheses	6
Methods			
Study design	4	Present key elements of study design early in the paper	7
Setting	5	Describe the setting, locations, and relevant dates, including periods of	7
		recruitment, exposure, follow-up, and data collection	
Participants	6	(a) Give the eligibility criteria, and the sources and methods of case	7
		ascertainment and control selection. Give the rationale for the choice of cases	
		and controls	
		(b) For matched studies, give matching criteria and the number of controls per	8
		case	
Variables	7	Clearly define all outcomes, exposures, predictors, potential confounders, and	8
		effect modifiers. Give diagnostic criteria, if applicable	
Data sources/	8*	For each variable of interest, give sources of data and details of methods of	8
measurement		assessment (measurement). Describe comparability of assessment methods if	
		there is more than one group	
Bias	9	Describe any efforts to address potential sources of bias	10
Study size	10	Explain how the study size was arrived at	7
Quantitative	11	Explain how quantitative variables were handled in the analyses. If applicable,	10
variables		describe which groupings were chosen and why	
Statistical methods	12	(a) Describe all statistical methods, including those used to control for	10
		confounding	1.1
		(b) Describe any methods used to examine subgroups and interactions	11
		(c) Explain how missing data were addressed	11
		(d) If applicable, explain how matching of cases and controls was addressed	n/a
		(\underline{e}) Describe any sensitivity analyses	11
Results			1
Participants	13*	(a) Report numbers of individuals at each stage of study—eg numbers	11
		potentially eligible, examined for eligibility, confirmed eligible, included in the	
		study, completing follow-up, and analysed	EC.
		(b) Give reasons for non-participation at each stage	FS1

		(c) Consider use of a flow diagram	FS1
Descriptive data		14* (a) Give characteristics of study participants (eg demographic, clinical, social)	T1
		and information on exposures and potential confounders	EC 1
		(b) Indicate number of participants with missing data for each variable of	FS1
		interest	
Outcome data		15* Report numbers in each exposure category, or summary measures of exposure	FS1
Main results		16 (a) Give unadjusted estimates and, if applicable, confounder-adjusted estimates	12
		and their precision (eg, 95% confidence interval). Make clear which confounders	
		were adjusted for and why they were included	
		(b) Report category boundaries when continuous variables were categorized	n/a
		(c) If relevant, consider translating estimates of relative risk into absolute risk for a	n/a
		meaningful time period	
Other analyses	17	Report other analyses done—eg analyses of subgroups and interactions, and sensitivity	13
		analyses	
Discussion			
Key results	18	Summarise key results with reference to study objectives	
Limitations	19	Discuss limitations of the study, taking into account sources of potential bias or	15
		imprecision. Discuss both direction and magnitude of any potential bias	
Interpretation 2	20	Give a cautious overall interpretation of results considering objectives, limitations, multiplicity of analyses, results from similar studies, and other relevant evidence	
Generalisability	21	Discuss the generalisability (external validity) of the study results	15
Other informati	on		
Funding	22	Give the source of funding and the role of the funders for the present study and, if	17
		applicable, for the original study on which the present article is based	

^{*}Give information separately for cases and controls.

Note: An Explanation and Elaboration article discusses each checklist item and gives methodological background and published examples of transparent reporting. The STROBE checklist is best used in conjunction with this article (freely available on the Web sites of PLoS Medicine at http://www.plosmedicine.org/, Annals of Internal Medicine at http://www.annals.org/, and Epidemiology at http://www.epidem.com/). Information on the STROBE Initiative is available at http://www.strobe-statement.org.